

# Kilian M Pohl

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

2,601  
citations

257450

24  
h-index

233421

45  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2964  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. <i>NeuroImage</i> , 2019, 202, 116091.   | 4.2  | 539       |
| 2  | The National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA): A Multisite Study of Adolescent Development and Substance Use. <i>Journal of Studies on Alcohol and Drugs</i> , 2015, 76, 895-908.  | 1.0  | 181       |
| 3  | Altered Brain Developmental Trajectories in Adolescents After Initiating Drinking. <i>American Journal of Psychiatry</i> , 2018, 175, 370-380.   | 7.2  | 133       |
| 4  | Adolescent Development of Cortical and White Matter Structure in the NCANDA Sample: Role of Sex, Ethnicity, Puberty, and Alcohol Drinking. <i>Cerebral Cortex</i> , 2016, 26, 4101-4121.   | 2.9  | 115       |
| 5  | White matter microstructural recovery with abstinence and decline with relapse in alcohol dependence interacts with normal ageing: a controlled longitudinal DTI study. <i>Lancet Psychiatry</i> , 2014, 1, 202-212.   | 7.4  | 91        |
| 6  | Harmonizing DTI measurements across scanners to examine the development of white matter microstructure in 803 adolescents of the NCANDA study. <i>NeuroImage</i> , 2016, 130, 194-213.   | 4.2  | 85        |
| 7  | Training confounder-free deep learning models for medical applications. <i>Nature Communications</i> , 2020, 11, 6010.   | 12.8 | 81        |
| 8  | Eveningness and Later Sleep Timing Are Associated with Greater Risk for Alcohol and Marijuana Use in Adolescence: Initial Findings from the National Consortium on Alcohol and Neurodevelopment in Adolescence Study. <i>Alcoholism: Clinical and Experimental Research</i> , 2017, 41, 1154-1165. | 2.4  | 75        |
| 9  | The Role of Aging, Drug Dependence, and Hepatitis C Comorbidity in Alcoholism Cortical Compromise. <i>JAMA Psychiatry</i> , 2018, 75, 474.   | 11.0 | 70        |
| 10 | Spatio-Temporal Graph Convolution for Resting-State fMRI Analysis. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 528-538.  | 1.3  | 68        |
| 11 | Accelerated and Premature Aging Characterizing Regional Cortical Volume Loss in Human Immunodeficiency Virus Infection: Contributions From Alcohol, Substance Use, and Hepatitis C Coinfection. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 844-859.          | 1.5  | 67        |
| 12 | Cognitive, emotion control, and motor performance of adolescents in the NCANDA study: Contributions from alcohol consumption, age, sex, ethnicity, and family history of addiction. <i>Neuropsychology</i> , 2016, 30, 449-473.  | 1.3  | 56        |
| 13 | The mediating role of cortical thickness and gray matter volume on sleep slow-wave activity during adolescence. <i>Brain Structure and Function</i> , 2018, 223, 669-685.  | 2.3  | 56        |
| 14 | End-To-End Alzheimer's Disease Diagnosis and Biomarker Identification. <i>Lecture Notes in Computer Science</i> , 2018, 11046, 337-345.  | 1.3  | 44        |
| 15 | Variational AutoEncoder for Regression: Application to Brain Aging Analysis. <i>Lecture Notes in Computer Science</i> , 2019, 11765, 823-831.  | 1.3  | 40        |
| 16 | Quantifying Parkinson's disease motor severity under uncertainty using MDS-UPDRS videos. <i>Medical Image Analysis</i> , 2021, 73, 102179.   | 11.6 | 37        |
| 17 | WESD-Weighted Spectral Distance for Measuring Shape Dissimilarity. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013, 35, 2284-2297.  | 13.9 | 36        |
| 18 | Representation Learning with Statistical Independence to Mitigate Bias. , 2021, 2021, 2512-2522.   |      | 35        |

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|----|---|------|-----------|
| 19 | Influences of Age, Sex, and Moderate Alcohol Drinking on the Intrinsic Functional Architecture of Adolescent Brains. <i>Cerebral Cortex</i> , 2018, 28, 1049-1063.  | 2.9  | 33        |
| 20 | Distribution of brain iron accrual in adolescence: Evidence from cross-sectional and longitudinal analysis. <i>Human Brain Mapping</i> , 2019, 40, 1480-1495.   | 3.6  | 33        |
| 21 | Regional growth trajectories of cortical myelination in adolescents and young adults: longitudinal validation and functional correlates. <i>Brain Imaging and Behavior</i> , 2020, 14, 242-266.                       | 2.1  | 33        |
| 22 | The Pandemic's Toll on Young Adolescents: Prevention and Intervention Targets to Preserve Their Mental Health. <i>Journal of Adolescent Health</i> , 2022, 70, 387-395.   | 2.5  | 33        |
| 23 | Logistic Regression Confined by Cardinality-Constrained Sample and Feature Selection. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, 42, 1713-1728.                                    | 13.9 | 32        |
| 24 | Disturbed Cerebellar Growth Trajectories in Adolescents Who Initiate Alcohol Drinking. <i>Biological Psychiatry</i> , 2020, 87, 632-644.  | 1.3  | 32        |
| 25 | Vision-Based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity. <i>Lecture Notes in Computer Science</i> , 2020, 12263, 637-647.   | 1.3  | 30        |
| 26 | Longitudinal self-supervised learning. <i>Medical Image Analysis</i> , 2021, 71, 102051.  | 11.6 | 28        |
| 27 | Hippocampal subfield CA2+3 exhibits accelerated aging in Alcohol Use Disorder: A preliminary study. <i>NeuroImage: Clinical</i> , 2019, 22, 101764.   | 2.7  | 27        |
| 28 | Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents. <i>JAMA Psychiatry</i> , 2021, 78, 407.   | 11.0 | 25        |
| 29 | Neuroinformatics Software Applications Supporting Electronic Data Capture, Management, and Sharing for the Neuroimaging Community. <i>Neuropsychology Review</i> , 2015, 25, 356-368.                                 | 4.9  | 23        |
| 30 | Adolescent Executive Dysfunction in Daily Life: Relationships to Risks, Brain Structure and Substance Use. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 223.   | 2.0  | 23        |
| 31 | Chained regularization for identifying brain patterns specific to HIV infection. <i>NeuroImage</i> , 2018, 183, 425-437.  | 4.2  | 23        |
| 32 | Deep learning identifies morphological determinants of sex differences in the pre-adolescent brain. <i>NeuroImage</i> , 2020, 223, 117293.  | 4.2  | 22        |
| 33 | Extracting patterns of morphometry distinguishing HIV associated neurodegeneration from mild cognitive impairment via group cardinality constrained classification. <i>Human Brain Mapping</i> , 2016, 37, 4523-4538. | 3.6  | 20        |
| 34 | Accelerated aging and motor control deficits are related to regional deformation of central cerebellar white matter in alcohol use disorder. <i>Addiction Biology</i> , 2020, 25, e12746.                             | 2.6  | 20        |
| 35 | Sensitivity of ventrolateral posterior thalamic nucleus to back pain in alcoholism and CD4 nadir in HIV. <i>Human Brain Mapping</i> , 2020, 41, 1351-1361.  | 3.6  | 20        |
| 36 | Regional Manifold Learning for Disease Classification. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1236-1247.   | 8.9  | 18        |

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|----|---|------|-----------|
| 37 | Graded Cerebellar Lobular Volume Deficits in Adolescents and Young Adults with Fetal Alcohol Spectrum Disorders (FASD). <i>Cerebral Cortex</i> , 2020, 30, 4729-4746.   | 2.9  | 17        |
| 38 | Representation Disentanglement for Multi-modal Brain MRI Analysis. <i>Lecture Notes in Computer Science</i> , 2021, 12729, 321-333.   | 1.3  | 17        |
| 39 | Structural brain anomalies in healthy adolescents in the NCANDA cohort: relation to neuropsychological test performance, sex, and ethnicity. <i>Brain Imaging and Behavior</i> , 2017, 11, 1302-1315.   | 2.1  | 16        |
| 40 | Convergence of three parcellation approaches demonstrating cerebellar lobule volume deficits in Alcohol Use Disorder. <i>NeuroImage: Clinical</i> , 2019, 24, 101974.   | 2.7  | 16        |
| 41 | Effects of prior testing lasting a full year in NCANDA adolescents: Contributions from age, sex, socioeconomic status, ethnicity, site, family history of alcohol or drug abuse, and baseline performance. <i>Developmental Cognitive Neuroscience</i> , 2017, 24, 72-83. | 4.0  | 15        |
| 42 | Computing group cardinality constraint solutions for logistic regression problems. <i>Medical Image Analysis</i> , 2017, 35, 58-69.   | 11.6 | 12        |
| 43 | Adolescent alcohol use disrupts functional neurodevelopment in sensation seeking girls. <i>Addiction Biology</i> , 2021, 26, e12914.  | 2.6  | 12        |
| 44 | Longitudinal Pooling & Consistency Regularization to Model Disease Progression From MRIs. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2082-2092.   | 6.3  | 12        |
| 45 | 3D Motion Modeling and Reconstruction of Left Ventricle Wall in Cardiac MRI. <i>Lecture Notes in Computer Science</i> , 2017, 10263, 481-492.   | 1.3  | 12        |
| 46 | Risk for depression tripled during the COVID-19 pandemic in emerging adults followed for the last 8 years. <i>Psychological Medicine</i> , 2023, 53, 2156-2163.   | 4.5  | 12        |
| 47 | Novel Machine Learning Identifies Brain Patterns Distinguishing Diagnostic Membership of Human Immunodeficiency Virus, Alcoholism, and Their Comorbidity of Individuals. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 589-599.        | 1.5  | 11        |
| 48 | Attenuated cerebral blood flow in frontolimbic and insular cortices in Alcohol Use Disorder: Relation to working memory. <i>Journal of Psychiatric Research</i> , 2021, 136, 140-148.   | 3.1  | 11        |
| 49 | Memory impairment in alcohol use disorder is associated with regional frontal brain volumes. <i>Drug and Alcohol Dependence</i> , 2021, 228, 109058.  | 3.2  | 11        |
| 50 | A Riemannian Framework for Longitudinal Analysis of Resting-State Functional Connectivity. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 145-153.   | 1.3  | 11        |
| 51 | Metadata Normalization. , 2021, 2021, 10912-10922.  |      | 11        |
| 52 | Alcohol use effects on adolescent brain development revealed by simultaneously removing confounding factors, identifying morphometric patterns, and classifying individuals. <i>Scientific Reports</i> , 2018, 8, 8297.   | 3.3  | 9         |
| 53 | Multi-modal imaging reveals differential brain volumetric, biochemical, and white matter fiber responsivity to repeated intermittent ethanol vapor exposure in male and female rats. <i>Neuropharmacology</i> , 2020, 170, 108066.  | 4.1  | 9         |
| 54 | Self-supervised Longitudinal Neighbourhood Embedding. <i>Lecture Notes in Computer Science</i> , 2021, , 80-89.   | 1.3  | 9         |

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|----|--|------|-----------|
| 55 | Central Nervous System Correlates of "Objective" Neuropathy in Alcohol Use Disorder. <i>Alcoholism: Clinical and Experimental Research</i> , 2019, 43, 2144-2152.  | 2.4  | 7         |
| 56 | Dissociable Contributions of Precuneus and Cerebellum to Subjective and Objective Neuropathy in HIV. <i>Journal of Neuroimmune Pharmacology</i> , 2019, 14, 436-447.   | 4.1  | 7         |
| 57 | Confounder-Aware Visualization of ConvNets. <i>Lecture Notes in Computer Science</i> , 2019, 11861, 328-336.   | 1.3  | 7         |
| 58 | Jacobian Maps Reveal Under-reported Brain Regions Sensitive to Extreme Binge Ethanol Intoxication in the Rat. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 108.  | 1.7  | 6         |
| 59 | Longitudinally consistent estimates of intrinsic functional networks. <i>Human Brain Mapping</i> , 2019, 40, 2511-2528.  | 3.6  | 6         |
| 60 | Performance ramifications of abnormal functional connectivity of ventral posterior lateral thalamus with cerebellum in abstinent individuals with Alcohol Use Disorder. <i>Drug and Alcohol Dependence</i> , 2021, 220, 108509.                        | 3.2  | 6         |
| 61 | Preliminary Evidence for a Relationship between Elevated Plasma TNF $\alpha$ and Smaller Subcortical White Matter Volume in HCV Infection Irrespective of HIV or AUD Comorbidity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4953. | 4.1  | 6         |
| 62 | Temporal Shape Analysis via the Spectral Signature. <i>Lecture Notes in Computer Science</i> , 2012, 15, 49-56.  | 1.3  | 6         |
| 63 | Age differences in brain structural and metabolic responses to binge ethanol exposure in fisher 344 rats. <i>Neuropsychopharmacology</i> , 2021, 46, 368-379.  | 5.4  | 5         |
| 64 | Multi-label Transduction for Identifying Disease Comorbidity Patterns. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 575-583.  | 1.3  | 5         |
| 65 | Multi-label, multi-domain learning identifies compounding effects of HIV and cognitive impairment. <i>Medical Image Analysis</i> , 2022, 75, 102246.   | 11.6 | 5         |
| 66 | Did the acute impact of the COVID-19 pandemic on drinking or nicotine use persist? Evidence from a cohort of emerging adults followed for up to nine years. <i>Addictive Behaviors</i> , 2022, 131, 107313.  | 3.0  | 5         |
| 67 | Data Augmentation Based on Substituting Regional MRIs Volume Scores. <i>Lecture Notes in Computer Science</i> , 2019, 11851, 32-41.  | 1.3  | 4         |
| 68 | Growth trajectories of cognitive and motor control in adolescence: How much is development and how much is practice?. <i>Neuropsychology</i> , 2022, 36, 44-54.  | 1.3  | 4         |
| 69 | Active Mean Fields for Probabilistic Image Segmentation: Connections with Chan–Vese and Rudin–Osher–Fatemi Models. <i>SIAM Journal on Imaging Sciences</i> , 2017, 10, 1069-1103.  | 2.2  | 3         |
| 70 | Solving Logistic Regression with Group Cardinality Constraints for Time Series Analysis. <i>Lecture Notes in Computer Science</i> , 2015, 9351, 459-466.   | 1.3  | 3         |
| 71 | Joint Data Harmonization and Group Cardinality Constrained Classification. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 282-290.   | 1.3  | 2         |
| 72 | eCurves: A Temporal Shape Encoding. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 733-744.  | 4.2  | 2         |

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|----|--|-----|-----------|
| 73 | Jacobian Mapping Reveals Converging Brain Substrates of Disruption and Repair in Response to Ethanol Exposure and Abstinence in 2 Strains of Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 92-104. | 2.4 | 2         |
| 74 | Alcohol Use Disorder and Its Comorbidity With HIV Infection Disrupts Anterior Cingulate Cortex Functional Connectivity. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 1127-1136.          | 1.5 | 1         |
| 75 | Going Beyond Saliency Maps: Training Deep Models to Interpret Deep Models. <i>Lecture Notes in Computer Science</i> , 2021, 12729, 71-82.  | 1.3 | 1         |
| 76 | Deep Parametric Mixtures for Modeling the Functional Connectome. <i>Lecture Notes in Computer Science</i> , 2020, 12329, 133-143.  | 1.3 | 1         |
| 77 | Auto-encoding of discriminating morphometry from cardiac MRI. , 2014, 2014, 217-221.   |     | 0         |
| 78 | Rates of amyloid PET positivity in geriatric HIV. <i>Alzheimer's and Dementia</i> , 2020, 16, e044134.   | 0.8 | 0         |
| 79 | 227 Poor sleep as a predictor of COVID-19 related stress, fear and sadness in young adolescents: a longitudinal study. <i>Sleep</i> , 2021, 44, A90-A91.   | 1.1 | 0         |
| 80 | Longitudinal Correlation Analysis forÂDecoding Multi-modal Brain Development. <i>Lecture Notes in Computer Science</i> , 2021, 12907, 400-409.   | 1.3 | 0         |
| 81 | Prior test experience confounds longitudinal tracking of adolescent cognitive and motor development. <i>BMC Medical Research Methodology</i> , 2022, 22, .   | 3.1 | 0         |